

Claims

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1. A urine collection device for attachment to a pump and for a user in a supine, or reclined position, said device including:-

5 an open-mouthed container having a rim around the mouth for being urged in use to seat generally around the periphery of the urine discharge region to receive urine discharged from the urethra,

the container being adapted to fit between the legs of a user in a supine or reclined position,

10 the container having at its lower part a reservoir basin in which fluid may collect in use when the container is applied to a user in a supine or reclined position, and

an outlet in the lower part of the reservoir basin through which urine may be drawn from the container.

2. A urine collection device according to Claim 1 for a female user, wherein
15 said rim is generally of oblate curvilinear form, wherein a broader, upper end region of the rim is adapted to be seated against the mons pubis (pubic bone region), and a narrower lower end region of the rim is adapted to be seated against the perineum, in use.

3. A urine collection device according to Claim 2, wherein the lower end
20 region of the rim is adapted to engage edgewise into the perineum of the user when the urine collection device is urged into a urine-collecting position in use, to effect a fluid tight seal.

4. A urine collection device according to Claim 2 or Claim 3, wherein the inner surface region of the container extending inwardly from the lower end

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region of the rim defines a downwardly-inclined weir surface.

5. A urine collection device according to any of the preceding claims, wherein the upper and lower ends of the rim define a notional contact plane (xx) which in use lies at between about 100° to 135° to the horizontal, when the user is reclined or supine.

6. A urine collection device according to any of the preceding claims, wherein the reservoir basin is defined at least partly by a back wall portion and a bottom wall portion which converge downwardly towards said outlet.

10 7. A urine collection device according to Claim 6, wherein the reservoir basin has a capacity of at least 10ml and preferably at least 20ml, when the device is applied to a user in a supine position.

8. A urine collection device according to Claim 6 or Claim 7, wherein said back wall portion and said bottom wall portion converge at an angle of between 90° and 120° , and preferably at about 106° .

15 9. A urine collection device according to any of Claims 6 to 8 when dependent on Claim 4, wherein said back wall portion lies at an angle of between about 120° and 160° , and preferably about 146° to the notional contact plane.

20 10. A urine collection device according to any of the preceding claims, which further includes in the lower region of the mouth at least one weir plate means which extends between opposed portions of the rim and extending into the basin region of the container.

11. A urine collection device according to any of the preceding claims wherein the outlet includes an tubular portion integral with the container and

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having a drain inlet end which is located at the lowermost portion of the reservoir basin, and which extends upwardly to terminate in a drain outlet end.

12. A urine collection device according to any of the preceding claims, wherein the rim has an inturned resiliently deformable lip extending around a part thereof for seating against the user's body and providing an internal peripheral gutter.

13. A urine collection device according to any of the preceding claims, including a vent aperture for air, said aperture lying above the maximum fill line of the reservoir basin in use.

10 14. A urine collection device according to Claim 13, wherein said aperture is formed by the lower end of a breather tube disposed generally vertically, the upper end of said tube being located to the exterior of said container, to prevent escape of urine.

15 15. A urine collection device according to Claim 14, wherein said container is provided with guard surfaces to prevent inadvertent blocking of the upper end of said tube by the hand of the user in use.

20 16. A urine collection system, comprising a urine collection device according to any of the preceding claims, a suction pump for applying suction to said device, and a container for receiving urine drawn from said collection device by said suction pump.

17. A urine collection system according to Claim 16, wherein said urine collection device has associated therewith a urine sensor and said system is operable on detection of urine by said sensor to start said suction pump.

18. A urine collection system according to Claim 16 or Claim 17 when

dependent on any one of Claims 13 to 15, wherein said aperture is sized such that, in use, when the urine collection device is applied to the user, and the suction pump operated, a slight negative pressure is present in the inside of the device to aid location and sealing of the device against the user.